

HARD RED SPRING WHEAT

*A premium quality wheat,
commanding premium prices*

The HRS wheat grown in North Dakota has built a special reputation amongst numerous world buyers for exceptional end-use quality and performance. This brings value to them, and builds repeat business for producers, often at premium prices in a highly competitive world market.

U.S. HRS wheat "DNS Wheat" is valued for:

- ◆ High Protein Content
- ◆ High Vitreous Kernel Levels
- ◆ Dough Strength
- ◆ High Water Absorption
- ◆ Big Loaf Volumes

Typically used as "blending" wheat (improve protein content and protein quality), and for specialty bread products and Asian noodles.

- ▶ Bagels
- ▶ Croissants
- ▶ Frozen Doughs
- ▶ Hard Rolls
- ▶ Pizza Crust
- ▶ Artisan Breads
- ▶ Buns (Hamburger)



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NORTH DAKOTA HARD RED SPRING WHEAT VARIETIES

Quality Matters in
Variety Selection

HELP TO KEEP OUR SPRING WHEAT PREMIUM!

Pick a variety that will help maintain our premium markets. Quality parameters that are valued at the point of sale, as well as in the mill and bakery, must remain a priority for the U.S. spring wheat industry, from wheat breeding companies, to producers, and wheat merchandisers. Many varieties can give you strong yields and maintain quality.

The accompanying list of varieties illustrates how varieties performed in comprehensive kernel, milling and baking quality evaluations at the North Dakota State University Quality lab. All varieties were grown under the same production environments, and their individual laboratory results were scored relative to the average of the set and weighted by key quality parameters: protein, test weight, vitreous kernels, milling yield, dough strength, water absorption, and loaf volume. Hierarchical cluster analysis was used to group varieties.

Varieties shaded in green are varieties that had good to excellent quality, were balanced in numerous end-use traits, and performed at or above the customer demanded quality targets for the HRS class. Varieties shaded in yellow ranged from average to good in end-use quality testing, and were more variable across important traits. Varieties shaded in red tend to fall below customer demanded quality targets for the HRS class.

As producers select varieties that have the needed agronomics and disease resistance for their growing area, they need to consider end-use quality as well, and are encouraged to choose varieties that rate higher in end-use quality testing. This will help U.S. HRS maintain its high rank in the world wheat quality spectrum.

VARIETY

2021-2023 Data

Bolles.....	UMN
CAG Recoil.....	CAG
TCG Teddy.....	TCG
Glenn.....	NDSU
ND VitPro.....	NDSU
Ascend-SD.....	SDSU
SY Ingmar.....	AP/SY
CP 3915.....	CP
ND Froberg.....	NDSU
TCG Heartland.....	TCG
MS Ranchero.....	MS
CAG Reckless.....	CAG
ND Stampede.....	NDSU
MS Cobra.....	MS
CP 3530.....	CP
Lanning.....	MSU
SY Longmire.....	AP/SY
AP Smith.....	AP/SY
TCG Spitfire.....	TCG
WB 9590.....	WB
MN Torgy.....	UMN
Boost.....	SDSU
ND Thresher.....	NDSU
MN Rothsay.....	UMN
AP Murdock.....	AP/SY
SY 611 CL2.....	AP/SY
ND Heron.....	NDSU
LCS Cannon.....	LCS
WB 9719.....	WB
LCS Ascent.....	LCS
MS Charger.....	MS
Brawn-SD.....	SDSU
Shelly.....	UMN
Driver.....	SDSU
LCS Dual.....	LCS
SY Valda.....	AP/SY
CP 3322.....	CP
Faller.....	NDSU
CAG Justify.....	CAG
LCS Trigger.....	LCS
PFS-Buns.....	PFS
CP 3188.....	CP
LCS Buster.....	LCS
CP 3099A.....	CP

The annual NDSU commercial statewide variety trials are the source of production used for the quality evaluation of these varieties. The trial is open to all seed companies for entries. Variety end-use performance is also influenced by environment, so some shifts can be expected on year-to-year comparisons. For a more detailed breakdown of the quality data, please refer to the [NDSU HRS Circular](#).



ABBREVIATIONS

AP/SY.....	AgriPro/Syngenta
CAG.....	Champions Alliance Group
CP.....	Croplan
LCS.....	Limagrain Cereal Seeds
MS.....	Meridian Seed
MSU.....	Montana State University
NDSU.....	North Dakota State University
PFS.....	Peterson Farm Seeds
SDSU.....	South Dakota State University
TCG.....	21 Century Genetics
UMN.....	University of Minnesota
WB.....	WestBred